

FIGURE 1

CGAAAAGAAAAATGGCTTTGAATTTTAATGCCATCGCCTCGAAATCTCAGAAGCTCCCT 60 MALNFNAIASKSQKLP TGCTTTGCTCTTCCACCAAAGGCCACCCTTAGATCTCCCAAGTTTTCCATGATCTCCACC 120 C F A L P P K A T L R S P K F S M I S T ATTCCTTCTGGCTCCAAAGAGGTTGGGAATCTGAAAAAGCCTTTCACGCCTCCAAAGGAG 180 I P S G S K E V G N L K K P F T P P K E GTGCCTGTTCAGATCACCCACTCCATGCCGCCTCACAAGATTGAGATCTTTAAATCTTTG 240 PVQITHSMPPHKIEIFKSL GAGGGCTGGGCTGAGAACAACATTCTGACTCACCTCAAACCAGTTGAGAAATGTTGGCAA 300 WNENNILTHLKPVEKCWQ CCCGCCGACTTTCTTCCAGATCCTAATTCTGATGGATTTCATGAGCAAGTCAAAGAGCTT 360 ADFLPDPNSDGFHEQVKEL RERAKEIPDDYFVVLVGDMI TEEALSTYQTMLNTLDGTRD GAGACAGGTGCTAGCCTTACCCCTTGGGCCATTTGGACCAGGGCTTGGACTGCTGAAGAA 540 ETGASLTPWAIWTRAWTAEE AACAGGCATGGTGATCTGCTTAATAAGTATCTCTACTTGTCTGGGAGAGTGGACATGAGG 600 NRHGDLLNKYLYLSGRVDMR CAAATTGAGAGGACAATCCAGTACTTGATTGGATCGGGAATGGATCCTCATACAGAGAAT 660 Q I E R T I Q Y L I G S G M D P H T E N AGTCCTTACCGAGGATTCATATACTTCGTTCCAAGAAAGGGCAACTTTTATTTCCCAT 720 SPYRGFIYTSFQERATFISH GGGAATACAGGCAGGCTGGCTAAGGAGTATGGGGATATTAACTTGGCTCAAATTTGTGGT 780 G N T G R L A K E Y G D I N L A Q I C G AGCATTGCCTCAGATGAGAAGCGCCACGAGACAGCCTATACCAAAATCGTTGAAAAGCTG 840 SIASDEKRHETAYTKIVEKL TTTGAGATTGATCCTGATGAAACAGTCCTGGCATTTGCTGACATGATGAAGAAGAAGAAAATC 900 F E I D P D E T V L A F A D M M K K K I GCCATGCCGGCTGAGTTCATCTATGATGGCAGAGATTATAACTTATTTGACCACTACTCA 960 AMPAEFIYDGRDYNLFDHYS GCTGTTGCCCAAAGAATCGGGGTTTACACTGCTAAGGACTATGTTGATATAGTAGAGCAC 1020 <u>AVAQRIG</u>VYTAKDY<u>V</u>DIVEH CTGGTGGATCGATGGAAGGTGAAGGAGCTAGCTGGGCTTTCAGCCCAGGGGCGTAAAGCT 1080 LVDRWKVKELAGLSAEGRKA CAGGACTACTTGTGTTCACTTCCTTCGAGAATTAGAAGGTTAGAGGGAGAGAGCGCAAGAA 1140 O D Y L C S L P S R I R R L . E E R A Q E AAGGCCAAGGAAGCACCCAGTGTCCCATTCAGTTGGATATTTGATAGAGAAGTGAAACTT 1200 KAKEAPS V P F S W I F D R E V K L CTGAATGCCAACTTCTCTTTATATATCCGATGTAATAGAGGTTGTATATGTAACAGGAGG 1320 AATTGCGTGGCTTTGGTTAGGGTAGCACATGTTTTCTGGATGTGTTGTCTCTTAAAAAA 1380 TAATGCCGATAGCGGCAGCTGTGATAGTTTTAGATGTTTTCATAATGTCTGTTATA 1440 TCGTTGTACGAGTAGTATGTTGTTGTTTGTTGAAACAATCTTCATATCTTAGTGATAAA 1500

FIGURE 2

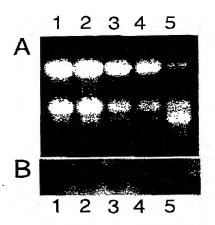


FIGURE 3

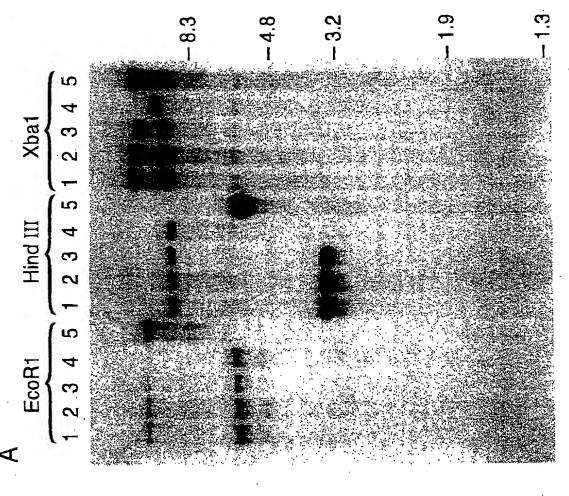
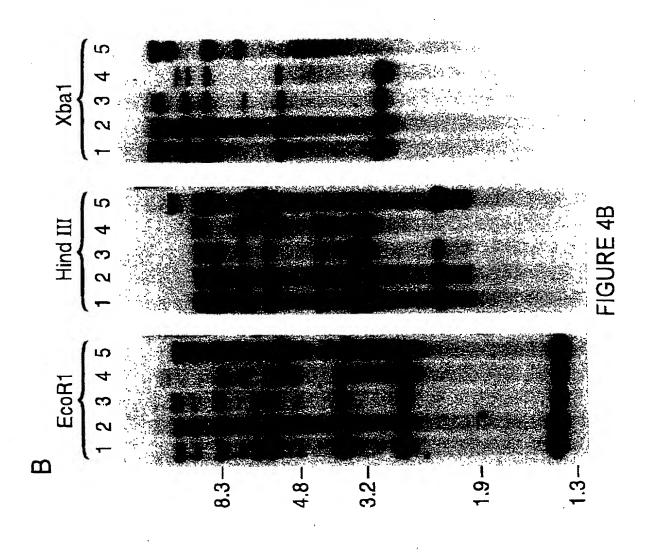


FIGURE 4A



CTCGCCCAAAACCAACACGCCTTCTTTGCCTCGTGTTTCATCACCTGGCGTTAAACTGCT	60
TTCTTTAAAGCCAGCAAAATCGGTGCCGGTGGTAGGATGCCAATTGACGGTATAAAGGAG	120
M G A G G R M P I D G I K E	
GAAAATCGAGGCTCGGTCAATCGAGTTCCGATCGAGAAGCCTCCGTTTACGCTCGGTCAG	180
ENRGS VNR VPIEKPPFTLG Q	
ATCANGCAAGCCATTCCGCCCCACTGTTTTCGCCGCTCCCTCCTTCGATCCTTCTCCTAC	240
I K O A I P P H C F R R S L L R S F S Y	
GTGGTCCATGACCTATGCTTAGCCTCTTTCTTTTACTACATTGCAACATCATATTTTCAC	300
dl2A4 primer	
V V H D L C L A S F F Y Y I A T S Y F H	
TTTCTCCCACAACCCTTTTCCTACATTGCTTGGCCTGTCTATTGGGTTCTCCAAGGTTGC	360
F L P O P F S Y I A W P V Y W V L Q G C	
ATCCTCACCGGTGTTTGGGTCATCGCACACGAGTGGGGTCACCACGCTTTCAGAGACTAC	420
I L T G V W V I A H E W G H H A F R D Y	
CAATGGGTTGACGACACCGTCGGGTTGATCCTTCATTCCGCCCTTTTAGTCCCGTACTTC	480
O W V D D T V G L I L H S A L L V P Y F	- • • •
CGTGGAAAATCAGTCACCGCCGTCACCACTCGAACACCGGTTCCATGGAGCGTGACGAA	540
S W K I S H R R H H S N T G S M E R D E	540
GTATTCGTGCCCAAACCCAAGTCTAAATTATCATGCTTTGCGAAATACTTAAACAATCCA	600
V F V P K P K S K L S C F A K Y L N N P	000
CCCGGTCGAGTTCTATCTCTTGTAGTCACATTGACTCTTGGTTGG	660
P G R V L S L V V T L T L G W P M Y L A	000
TTCAACGTTTCGGGTCGATACTATGATCGATTAGCTTCCCACTATAACCCTTATGGCCCC	720
F N V S G R Y Y D R L A S H Y N P Y G P	720
ATTTACTCCGATCGCGAGAGGCTACAAGTTTACATCTCCGATACTGGTATATTTGCGGTA	780
I Y S D R E R L O V Y I S D T G I F A V	, 60
ATTTATGTACTTTATAAGATTGCTGCAACAAAAGGGCTGGCT	840
I Y V L Y K I A A T K G L A W L L C T Y	040
GGGGTGCCTCTACTTATTGTGAATGCCTTCCTTGTGTTGATCACCTACTTGCAACATACT	900
S'VPLLIVNAFLVLITYLQHT	500
CACTOGGCATTGCGCATTATGACTCGTCGCGATGGGATTGGTTGCGAGGAGCATTGTCG	960
H S A L P H Y D S S E W D W L R G A L S	360
ACGATGGATCGAGATTTCGGGGTGTTGAACAAAGTGTTCCATAACATCACCGATACGCAT	1020
I M D R D F G V L N K V F H N I T D T H	1020
GTTGCTCATCACCTCTTCTCAACGATGCCACATTATCATGCAATGGAGGCCACTAAAGCA	1080
V A H H L F S T M P H Y H A M E A T K A	1080
ATCAAACCAATACTCGGCAAGTATTATCCTTTCGACGGGACACCGATTTACAAGGCAATG	1140
	1140
IGGAGGGAGGCAAAAGAGTGCCTTTACGTTGAGCCTGACGTTGGTGGTGGTGGTGGT N R E A K E C L Y V E P D V G G G G G	1200
	* * * *
AGCAAAGGTGTTTTTTGGTATCGTAACAAGTTCTAAAGACCGACC	1260
S K G V F W Y R N K F +	
GCCCGCGAAATCAACGTAAAACGTACTTATTAGACTAGTGTTAACTAGGGAAGTTAATA	1320
ATTAATGGTAGGAAAATGTGGGAATAGTTGCCTAGTAGTTTTATGTATTAAGTGTTGTATT	1380
AATAAACTATATGGTAGAAAAAAAAAAAAA	7 11 7

FIGURE 5

taaaaaaaaaaaggcatttctttcatcttaaagagacagcgaggaagccacgaagataata gagtgattttcaatctccattttaagggtgtggaacaatgggtgctggaggcagaatgtc MGAGGRMS ggttccaacgagtccaaaaaacccgaattcaactcactgaagcgagttccatactcaaa V P T S P K K P E F N S L K R V P Y gccacccttcactctgagtgaaatcaagaaagccatcccaccacactgtttccagcgctc TLSEIKKAIPPHCFQRS cgttttacgctcattctcatatctcctttacgactttatattggcctctcttttttacca V L R S F S Y L L Y D F I L A S L tgtggccaccaattacttccctaaccttcctcaggctctctccaacgtggcttggcctct V A T N Y F P N L P O A L S N V A W P L ttattgggccatgcaaggttgcattttgaccggcgtttgggtcatagcccatgaatgtgg WAMQGCILTGVWVIAHE ccaccatgctttcagtgattatcaatggcttgacgacaccgtgggccttatcctccactc H A F S D Y Q W L D D T V G L I L ttctctcttagttccatatttctcttggaaatatagccaccggcgtcaccattctaacac SLLVPYFSWKYSHRRHHSN cggttccctcgaaagggatgaagtgttcgttcccaagaaaaaatctggtttaagatggtg SLERDEVFVPKKKSGLRW ggccaaacacttcaacaatccaccgggtcggtttctgtcaatcaccattcaacttaccct A K H F N N P P G R F L S I T I Q L G W P L Y L A F N V A G R P Y D R F A C ccactatgacccttacggccccatattttccgaccgggaacgactccaaatctatatctc Y D P Y G P I F S D R E R L Q I Y tgacgccggcgtcctcgctgtcgcctatgcgctctaccgtctcgtgttggccaaaggggt DAGVLAVAYALYRLVLAK aggttgggttattagcgtttatggggtgccattattggtggttaacgccttcttagtaat W V I S V Y G V P L L V V N A F L V M qatcacqtatttqcaacacactcacccatctttqccqcactatqattcctcqqaqtqqqa Y L O H T H P S L P H Y D S S E W D ctggatgagaggagctttatcaactgtggacagagattatgggattttaaacaaggtttt TVDRDYGILN WMRGALS ccataacataaccqacactcatqtqqctcatcatttgttttcgacaatgcctcactatca DTHVAHHLFSTMP I T tgccatggtggccaccaaggcgataaagcccatattgggggaatactatcagttcgatgg A M V A T K A I K P I L G E Y Y Q F D G gatgcctgtctataaggcgatatggagggaggcgaaggagtgtctctacgttgaaccaga M P V Y K A I W R E A K E C L Y V E P tgagggcgacaaggataaaggtgtgtttttggtttagaaacaagctttaaatatttgcatt GDKDKGVFWFRNKL ttaccttaggcatgttctagtcgttgatgttttaaggatattttagccgacatacttggt tttcctttttgggactttttagctttgtatttgcagacaataatcttgttcactattaaa taatggtagaaataaatacacagcatggattggcaataaaaa

FIGURE 6

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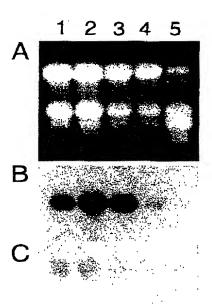


FIGURE 8

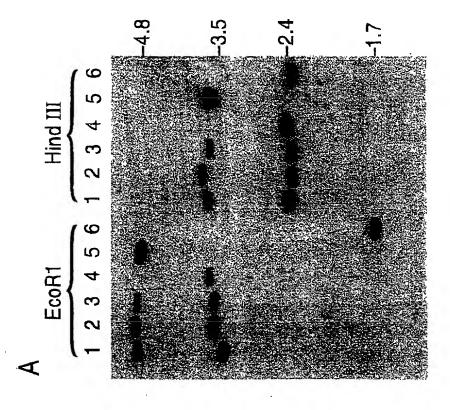
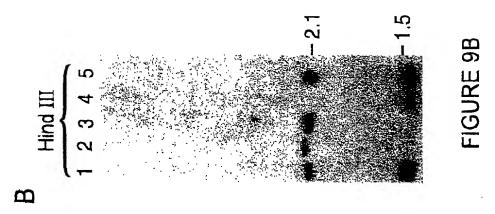


FIGURE 9A



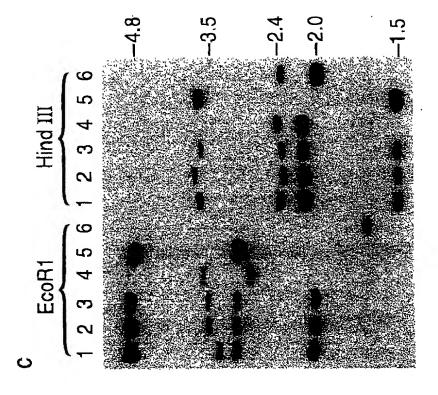
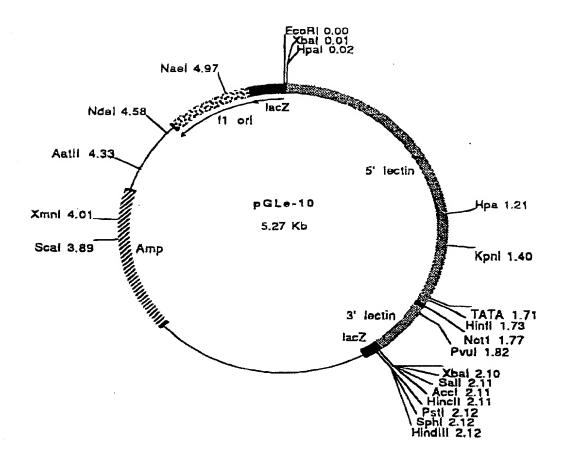


FIGURE 9C



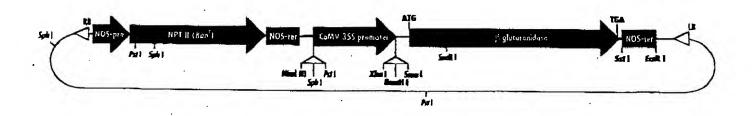
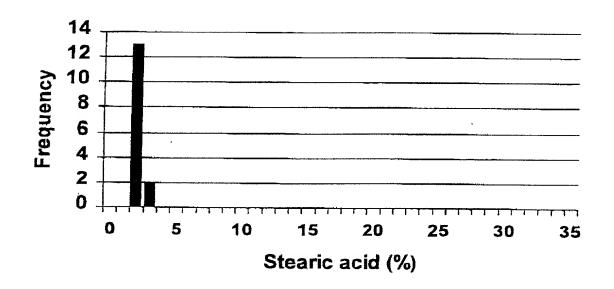


FIGURE 10



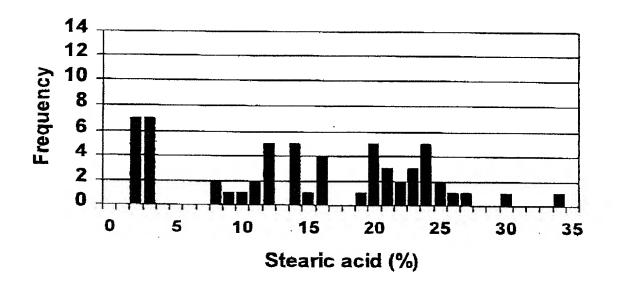
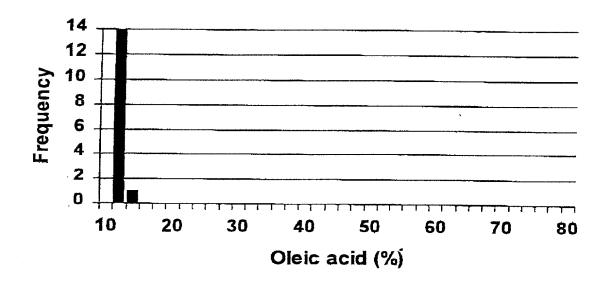


FIGURE 11



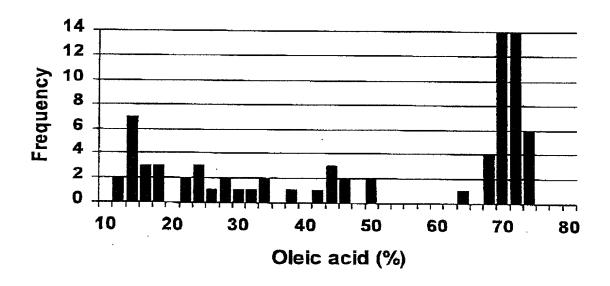


FIGURE 12

♦ Coker 315 ○ High Oleic ▲ High Stearic ◆ High Oleic & High Stearic

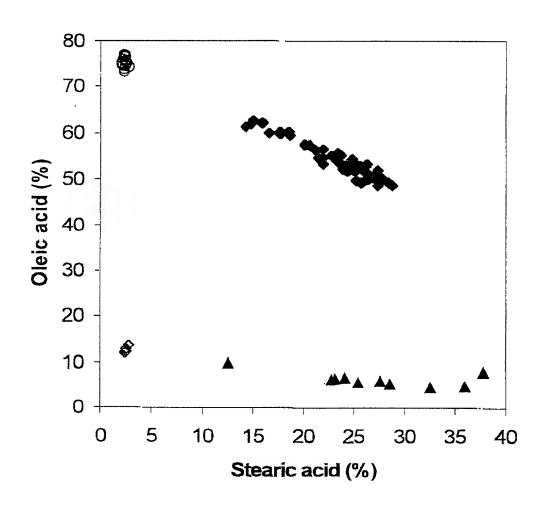


FIGURE 13